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345 Park Avenue
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EXAMINER

ZEWDU, MELESS NMN

ART UNIT	PAPER NUMBER
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2683

DATE MAILED: 04/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/081,984

Applicant(s)

HIMBERG ET AL.

Examiner

Meless N Zewdu

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-34 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 November 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6 and 7</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

1. This action is the first on the merit of the instant application.
2. Claims 1-34 are pending in this action.

Drawings

The drawings are objected to under 37 CFR 1.83(a) because they fail to show clearly the "user interaction with the device" (fig. 2) and the chart showing when "the device will recognize a similar sensor pattern" (fig. 3) as described in the specification (see page 3, lines 5-11). Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the mobile communication device recited in claims 13, 14, 30, 31 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 9-23 and 25-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schorman et al. (Schorman) (US 5,081,707) in view of Slemon et al. (Slemon) (US 5,910,765).

As per claim 1: a method for controlling a user interface of a mobile communication device having at least one sensor, the method comprising:

storing sensor signals indicative of a plurality of external conditions over a period of time reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

storing an indication of an operation performed by the user during at least one of said sensor data segments reads on 707 (see col. 3, line 65-col. 4, line 26).

determining a rule for future operation reads on '707 (see col. 3, line 34-col. 4, line 51). But, Schorman does not explicitly teach about segmenting the sensor signals

into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

As per claim 2: the method wherein said rule corresponds to a change in a user interface of the mobile communication device reads on '707 (see abstract; col. 1, line 55-col. 2, line 8; col. 4, lines 43-51). The prior art's vehicle is a mobile communication device. The prior art adjusts volume of speaker.

As per claim 3: the method wherein said mobile communication device is a mobile telephone reads on '707 (see col. 1, lines 10-15; col. 2, lines 18-39).

As per claim 4: the method wherein said external conditions include an acceleration, noise level, and luminosity sensors and humidity reads on '707 (see col. 3, lines 34-64; col. 4, lines 14-42). Schorman does not explicitly say about noise, luminosity and humidity sensors. But, when the references are combined as shown in claim 1 above, several environmental conditions can be detected using Slemon's sensor module.

As per claim 5: the method wherein said segmenting of sensor signals is performed substantially in real time with said storing the sensor reads on '765 (see col. 3, lines 30-50; col. 4, lines 37-43). The Schorman's reference shows that sensor data is used to adjust current operations which is in real time. When modified by Slemon as shown above, segmentation will be in real time too.

As per claim 6: the method wherein said segmenting of sensor signals is performed after a predetermined amount of said sensor signals are stored reads on '765 (see col. 3, lines 30-50). The prior art teaching is that segmentation or collecting and sorting data depends upon the environmental events. It can be done continuously or periodically. For example, on col. 2, lines 1-16, a transformer sensor is provides a periodical output for maintenance or replacement purpose. On the other hand, in Schorman, the vehicle speed and the accompanied volume adjustment should be down in real time.

As per claim 7: the method wherein said segmenting comprises time series segmentation of the sensor signals reads on '765 (see col. 3, lines 30-50). Continuously indicates time series.

As per claim 9: the method wherein said storing the sensor signals comprises storing analog sensor data reads on '707 (see col. 2, lines 18-39). The prior art is capable of handling both analog and digital signals for use in sensor data processing.

As per claim 10: the method wherein said storing the sensor signals comprises storing digital sensor data reads on '707 (see col. 2, lines 18-39). The prior art is capable of handling both analog and digital signals for use in sensor data processing.

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As per claim 11: the method wherein said determining said rule further comprises storing the rule in a rule database reads on '707 (see abstract; col. 3, lines 47-64; col. 4, lines 43-51). Schorman's reference provides sensor based operation according to stored rules. It is termed as "knowledge based", as shown in the abstract.

As per claim 12: the method further comprising:

detecting a plurality of external conditions reads on '707 (see col. 1, line 55-col. 2, line 8; col. 4, lines 61-67).

searching said rules database to find a rule matching the external conditions reads on 707 (see col. 4, lines 43-51; col. 5, lines 6-20; col. 6, lines 8-20).

performing a function corresponding to the rule reads on '707 (see col. 3, line 47-col. 4, line 26; col. 4, lines 43-51).

As per claim 16: the method wherein said sensor signals comprise at least one of: raw sensor data and preprocessed sensor data reads on '707n (see col. 1, line 55-col. 2, line 8; col. 2, lines 23-65). The prior art of record teaches that a previous fact (processed data) is stored and in addition sensors detect the current conditions (raw data) of the environment.

As per claim 13: a mobile communication device, comprising:

at least one sensor for detecting a plurality external conditions reads on '707 (see fig. 1; col. 3, line 55-col. 2, line 8; col. 2, lines 60-65).

a display for presenting a user interface for selecting a plurality of operations reads on '707 (see fig. 1, element 107; col. 2, lines 40-48).

a memory for storing a plurality of sensor signals from said at least one sensor, said sensor signals indicative of a plurality of external conditions over a period of time reads on '707 (see fig. 1, element 104; col. 1, line 55-col. 2, line 48, particularly col. 2, lines 33-48).

the memory further for storing an indication of an operation performed by the user reads on '707 (see col. 3, line 23-col. 4, line 26).

the processor further for determining a rule for modifying the user interface based on sensor data reads on '707 (see col. 3, line 6-col. 4, line 26). But, Schorman does not explicitly teach about a processor that segments sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43, col. 6, lines 22-37). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Schorman's processor unit (fig. 1, element 103) with that of Slemon processor (with its sensor data segmenting capability) for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments. Note: when the references are combined as discussed above, operations, including modifications and storing, etc. will be performed based on the segmented sensor data.

As per claim 14: a mobile communication device, comprising:

a means for detecting a plurality of external conditions reads on '707 (see fig. 1; col. 3, line 55-col. 2, line 8; col. 2, lines 60-65).

a means for presenting a user interface for selecting a plurality of operations reads on '707 (see fig. 1, element 107; col. 2, lines 40-48).

a memory for storing a plurality of sensor signals from said at least one sensor, said sensor signals indicative of a plurality of external conditions over a period of time reads on '707 (see fig. 1, element 104; col. 1, line 55-col. 2, line 48, particularly col. 2, lines 33-48).

means memory further for storing an indication of an operation performed by the user reads on '707 (see col. 3, line 23-col. 4, line 26).

means processor further for determining a rule for modifying the user interface based on sensor data reads on '707 (see col. 3, line 6-col. 4, line 26). But, Schorman does not explicitly teach about a meansr for segmenting sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43, col. 6, lines 22-37). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Schorman's processor unit (fig. 1, element 103) with that of Slemon processor (with its sensor data segmenting capability) for the advantage of sorting the collected sensor

data into usable pattern or sequence of data segments. Note: when the references are combined as discussed above, operations, including modifications and storing, etc. will be performed based on the segmented sensor data.

As per claim 15: a computer readable medium encoded with processing instructions for implementing a method performed by a mobile communication device having at least one sensor, the method comprising:

storing sensor signals indicative of a plurality of external conditions over a period of time reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

storing an indication of an operation performed by the user during at least one of said sensor data segments reads on 707 (see col. 3, line 65-col. 4, line 26).

determining a rule for future operation reads on '707 (see col. 3, line 34-col. 4, line 6). But, Schorman does not explicitly teach about segmenting the sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of

Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

As per claim 17: a method for controlling a user interface of a mobile communication device having at least one sensor, the method comprising:

storing sensor signals indicative of a plurality of particular external conditions reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

storing an indication of an operation performed by the user during said particular external conditions reads on 707 (see col. 3, line 65-col. 4, line 26).

If the operation is performed during a later occurrence of the particular conditions, determining a rule for future corresponding to the operation performed by the user and the particular external conditions reads on '707 (see col. 3, line 34-col. 4, line 51). In the "knowledge based" prior art, previous environmental conditions are collected for use in current operations. A skilled artisan recognizes that the current operation condition in view of the past is a future one. But, Schorman does not explicitly teach about segmenting the sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for

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one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

As per claim 18: the method wherein said rule corresponds to a change in a user interface of the mobile communication device reads on '707 (see abstract; col. 1, line 55-col. 2, line 8; col. 4, lines 43-51). The prior art's vehicle is a mobile communication device. The prior art adjusts volume of speaker.

As per claim 19: the method wherein said mobile communication device is a mobile telephone reads on '707 (see col. 1, lines 10-15; col. 2, lines 18-39).

As per claim 20: the method wherein said external conditions include an acceleration, noise level, and luminosity sensors and humidity reads on '707 (see col. 3, lines 34-64; col. 4, lines 14-42). Schorman does not explicitly say about noise, luminosity and humidity sensors. But, when the references are combined as shown in claim 1 above, several environmental conditions can be detected using Slemon's sensor module.

As per claim 21: the method wherein said segmenting of sensor signals is performed substantially in real time with said storing the sensor reads on '765 (see col. 4, lines 37-43). The Schorman's reference shows that sensor data is used to adjust current operations which is in real time. When modified by Slemon as shown above, segmentation will be in real time too.

As per claim 22: the method wherein said segmenting of sensor signals is performed after a predetermined amount of said sensor signals are stored reads on '765 (see col. 3, lines 30-50). The prior art teaching is that segmentation or collecting and sorting data

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depends upon the environmental events. It can be done continuously or periodically.

For example, on col. 2, lines 1-16, a transformer sensor is provides a periodical output for maintenance or replacement purpose. On the other hand, in Schorman, the vehicle speed and the accompanied volume adjustment should be down in real time.

As per claim 23: the method wherein said segmenting comprises time series segmentation of the sensor signals reads on '765 (see col. 3, lines 30-50). Continuously indicates time series.

As per claim 25: the method wherein said storing the sensor signals comprises storing analog sensor data reads on '707 (see col. 2, lines 18-39). The prior art is capable of handling both analog and digital signals for use in sensor data processing.

As per claim 26: the method wherein said storing the sensor signals comprises storing digital sensor data reads on '707 (see col. 2, lines 18-39). The prior art is capable of handling both analog and digital signals for use in sensor data processing.

As per claim 27: the method wherein said determining said rule further comprises storing the rule in a rule database reads on '707 (see abstract; col. 3, lines 47-64; col. 4, lines 43-51). Schorman's reference provides sensor based operation according to stored rules. It is termed as "knowledge based", as shown in the abstract.

As per claim 28: the method further comprising:

detecting a plurality of external conditions reads on '707 (see col. 1, line 55-col. 2, line 8; col. 4, lines 61-67).

searching said rules database to find a rule matching the external conditions reads on 707 (see col. 4, lines 43-51; col. 5, lines 6-20; col. 6, lines 8-20).

performing a function corresponding to the rule reads on '707 (see col. 3, line 47-col. 4, line 26; col. 4, lines 43-51).

As per claim 29: the method wherein said sensor signals comprise at least one of: raw sensor data and preprocessed sensor data reads on '707n (see col. 1, line 55-col. 2, line 8; col. 2, lines 23-65). The prior art of record teaches that a previous fact (processed data) is stored and in addition sensors detect the current conditions (raw data) of the environment.

As per claim 30: a mobile communication device, comprising:

means for storing sensor signals indicative of particular external conditions reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

means for storing an indication of an operation performed by the user during said particular external conditions reads on 707 (see col. 3, line 65-col. 4, line 26).

means for determining a rule corresponding to the operation performed by the user and the particular external conditions, if the operation is performed during a later occurrence of the particular external conditions reads on '707 (see col. 3, line 34-col. 4, line 6). In the "knowledge based" prior art, previous environmental conditions are collected for use in current operations. A skilled artisan recognizes that the current operation condition in view of the past is a future one. But, Schorman does not explicitly teach about segmenting the sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending

on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

As per claim 31: a mobile communication device, comprising:

at least one sensor for detecting a plurality of external conditions reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

a display for presenting a user interface for selecting a plurality of operations reads on '707 (see fig. 1, element 107; col. 2, lines 40-48).

a memory for storing sensor signals indicative of particular external conditions reads on '707 (see fig. 1, element 104; col. 1, line 55-col. 2, line 48, particularly col. 2, lines 33-48).

the memory further for storing an indication of an operation performed by the user during said particular external conditions reads on '707 (see col. 3, line 23-col. 4, line 26).

the processor further for determining a rule corresponding the operation performed by the user and the particular external conditions, if the operation is performed during a later occurrence of the particular external conditions, reads on '707 (see col. 3, line 34-col. 4, line 6). In the "knowledge based" prior art, previous

environmental conditions are collected for use in current operations. A skilled artisan recognizes that the current operation condition in view of the past is a future one. But, Schorman does not explicitly teach about segmenting the sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

As per claim 32: a computer read-able medium encoded with processing instructions for implementing a method performed by a mobile communication device having at least one sensor, the method comprising:

storing sensor signals indicative of a plurality of external conditions over a period of time reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

storing an indication of an operation performed by the user during said particular external conditions reads on 707 (see col. 3, line 65-col. 4, line 26).

determining a rule corresponding to the operation performed by the user and the particular external conditions, if the operation is performed during a later occurrence of the particular external conditions reads on '707 (see col. 3, line 34-col. 4, line 6). In the "knowledge based" prior art, previous environmental conditions are collected for use in current operations. A skilled artisan recognizes that the current operation condition in view of the past is a future one. But, Schorman does not explicitly teach about segmenting the sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

As per claim 33: a method for controlling a user interface of a mobile communication device having at least one sensor, the method comprising:

storing sensor signals indicative of a plurality of external conditions over a period of time reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

storing an indication of a plurality of operations performed by the user reads on '707 (see col. 1, line 55-col. 2, line 8; col. 2, lines 33-65; col. 3, line 23-col. 4, line 6).

determining a rule for future operations reads on '707 (see col. 3, line 56-col. 4, line 51). But, Schorman does not explicitly teach about segmenting the sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

As per claim 34: a method for controlling a user interface of a mobile communication device having at least one sensor, the method comprising:

storing sensor signals indicative of a plurality of particular external conditions reads on '707 (see fig. 1; elements 104 and 114; col. 1, lines 55-68; col. 2, lines 60-65).

storing at least one indication of a plurality of operations performed by the user during said particular external conditions reads on 707 (see col. 3, line 65-col. 4, line 26).

If the plurality operations are performed during a later occurrence of the particular external conditions, determining a rule corresponding to the plurality of operations performed by the user and the particular external conditions reads on '707 (see col. 3, line 34-col. 4, line 51). In the "knowledge based" prior art, previous environmental conditions are collected for use in current operations. A skilled artisan recognizes that the current operation condition in view of the past is a future one. But, Schorman does not explicitly teach about segmenting the sensor signals into a sequence of sensor data segments, as claimed by applicant. However, in a related field of endeavor, Slemon teaches about a sensor module comprising an array of plurality of sensors for detecting and collecting data on environmental conditions relating to a room or a piece of equipment, depending on the intended application, and wherein the collected output data is segmented into data segments (see col. 3, line 30-col. 4, line 43, particularly col. 4, lines 40-43). When the references are combined as shown, the rule for future operation will corresponding to said sensor data segments and operation. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teaching of Schorman with that of Slemon for the advantage of sorting the collected sensor data into usable pattern or sequence of data segments.

Claims 8 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over the references applied to claims 1 and 17 above, and further in view of Bauerle et al. (Bauerle) (US 6,564,127 B1).

As per claim 8: but, Schorman in view of Slemon do not explicitly teach about a method wherein said determining said rule includes downloading a rule from an external

source, as claimed by applicant. Differently phrased, this feature is directed to downloading, by a mobile radio, of programming or application data from a remote site. However, in a related field of endeavor, Bauerle teaches that a mobile application service provider is capable of providing mobile application services to vehicles via the wireless telecommunications network (see col. 1, line 64-col. 2, line 20; col. 3, line 54-col. 4, line 3). Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to further modify Schorman in view of Slemon with the teaching of Bauerle for the advantage of exchanging environmental data.

As per claim 24: the method wherein said determining said rule includes downloading a rule from an external source reads on '127 (see col. 1, line 64-col. 2, line 20; col. 3, line 54-col. 4, line 3). The features of claims 8 and 24 are same. Hence, claim 24 is rejected on the same ground and motivation as claim 8.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meless N Zewdu whose telephone number is (703) 306-5418. The examiner can normally be reached on 8:30 am to 5:00 pm..

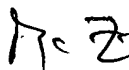
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703) 308-5318. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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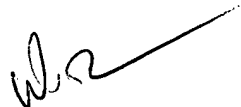
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Meless Zewdu



Examiner

02 April 2004.



WILLIAM TROST
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